

1/PRT5

09/762580

JC05 Rec'd PCT/PTO 09 FEB 2001

PATENT

INSTITUT FRANÇAIS DU PETROLE

**SYSTEM FOR INJECTING A DIVERTED FLUID IN A SIMULATED MOVING
BED SEPARATION PROCESS**

Inventors : Gérard HOTIER, Gilles FERSCHNEIDER,
Jean-Christophe VIGUIE and Xavier DECOODT

ABSTRACT

Device for separating at least one compound from a mixture in a simulated moving bed, comprising :

- an enclosure comprising several adsorbent beds, two adsorbent beds being separated by a fluid distribution and extraction plate (P_i), the plate comprising one or more distribution, mixing and/or extraction panels, comprising a chamber (C_i),
- main fluid delivery (4) and extraction (2) lines,
- several secondary fluid extraction or injection lines (10, 11, 12, 13, T_i),
- a bypass circuit communicating a distribution plate with a bypass line,
- means (14, $V_{0i,j}$, 20) communicating at least one chamber (C_i) with at least one bypass line ($L_{i,j}$),
- at least one of the ends of a bypass line communicates with a zone R_i , R'_i of an adsorbent bed, said zone being distinct from a distribution chamber (C_i) and another end is connected to said chamber (C_i).